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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,704	06/25/2003	Takashi Ohta	113002.01	9964
25944	7590	06/03/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			GILMAN, ALEXANDER	
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/602,704

Applicant(s)

OHTA ET AL.

Examiner

Alexander D. Gilman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 May 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 10-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 10-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 10, 11, 13, 14, 16-23 rejected under 35 U.S.C. 103(a) as being unpatentable over Minoura et al in view of Tanaka or Schauer et al.

With regard to claims 13, 14, 18, Minoura et al (US 4,703,397) discloses a wiring connection structure or an electronic apparatus containing electronic parts requiring large current for driving, the structure comprising:

a housing (22) of the electronic apparatus in which a substrate (24) including the electronic parts is placed;

a bus bar (26) that wires inside the electronic apparatus and leads out wiring to outside the housing;

Minoura does not disclose (Fig. 2c) that a harness (33 and a harness, which is connected to 26 and not shown ) is welded to the bus bar (26), wherein:

the bus bar is integrally molded with the housing; and a point where the harness and the bus bar are welded is integrally molded with the housing outside the housing (the top of 26 being outside the housing)

Tanaka (US 5,724,730) disclose a harness (6) being welded to bus bar (5), wherein connection of the bus bar with harness is integrally molded (10).

Schauer et al (US 4,949,454) disclose that a harness (18) welded to bus bar (17), wherein connection of the bus bar with harness is integrally molded (8).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made in Minoura et al or Schauer et al to weld and integrally mold the bus bar (26), harness (33 and

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harness, attached to the bar in 31, with the housing (32 and respectively 29) , as taught by Tanaka , to simplify the connections of the bar and harness and protect the outside harness-bus bar connection against moisture.

With regard to claims 10, 11, 19, 21, Minoura et al when modified Tanaka disclose the structure which is assembled using steps claimed.

With regard to claims 16-18, Minoura et al, when modified Tanaka disclose (Minoura et al) that the housing defines a cavity (a cavity surrounding 26)

With regard to claims 20, 22, Minoura et al, when modified Tanaka disclose (Minoura et al) that the harness being attached at opposite end portions of the housing (harness attached at top and bottom ends of 26).

With regard to claim 23, Minoura et al, when modified Tanaka disclose (Minoura et al) that one end of the harness (33) is electrically connected to an electronic circuit substrate within the housing. .

Claims 12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Minoura et al in view of Tanaka and further in view of Shukushima et al .

.Minoura et al when modified Tanaka disclose all of the limitations except for a heat resisting tube.

Shukushima et al (US 5,287,894) disclose a heat resisting tube.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the harness with heat resisting tube , as taught by Shukushima et al , to protect the harness during overmolding.

With regard to claim 15 Minoura et al, when modified Tanaka - Shukushima et al, disclose the structure which is assembled using steps claimed.

### ***Response to Arguments***

Applicant's arguments with respect to claim 1, 3 have been considered but are moot in view of the new ground(s) of rejection. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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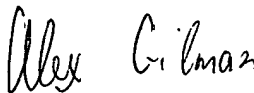
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D. Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

05/24/2005

  
**ALEXANDER GILMAN**  
**PRIMARY EXAMINER**